

Serial No. 09/831,301

Attorney Dkt. No. 036301-0103

CLAIMS:

Claims 1 through 33 (Canceled)

34. (Previously presented) A homogeneous liquid adjuvant for use with a chemical used in agriculture comprising:

- (a) from 15 to 35% by weight of one or more mineral oils;
 - (b) from 5 to 25% by weight of one or more ammonium salts of inorganic anions; and
 - (c) from 1 to 10% of one or more cationic emulsifiers selected from the group consisting of fatty amines, fatty amine oxides and mixtures thereof;
- wherein the cationic emulsifier acts as a coupling agent between the lipophilic solvent and the lipophobic plant nutrient to form a homogeneous liquid composition.

35. (Previously presented) A homogeneous liquid adjuvant for use with a chemical used in agriculture comprising:

- (a) from 15 to 35% by weight of one or more mineral oils;
 - (b) from 5 to 25% by weight of one or more ammonium salts of inorganic anions selected from ammonium sulfate, ammonium phosphate and mixtures thereof; and
 - (c) from 1 to 10% of one or more cationic emulsifiers selected from dimethylcocoamine, dimethylaurylamine oxide, alkyltrimethyl-ammonium chloride, alkyl dimethylbenzylammonium chloride, alkylpyridium chloride, alkylimidazolium chloride, or mixtures thereof;
- wherein the cationic emulsifier acts as a coupling agent between the lipophilic solvent and the lipophobic plant nutrient to form a homogeneous liquid composition.

36. (Previously presented) A homogeneous liquid adjuvant for use with a chemical used in agriculture comprising:

- (a) from 15 to 35% by weight of one or more mineral oils;
- (b) from 5 to 25% by weight of one or more ammonium salts of inorganic anions selected from ammonium sulfate, ammonium phosphate and mixtures thereof;

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(c) from 1 to 10% of one or more cationic emulsifiers selected from dimethylcocoamine, dimethylaurylamine oxide, alkyltrimethyl-ammonium chloride, alkyl dimethylbenzylammonium chloride, alkylpyridium chloride, alkylimidazolium chloride, or mixtures thereof; and

(d) from 1 to 30% of one or more other components to improve the form of the composition;

wherein the cationic emulsifier acts as a coupling agent between the lipophilic solvent and the lipophobic plant nutrient to form a homogeneous liquid composition.

37. (Previously presented) A homogeneous liquid adjuvant for use with a chemical used in agriculture comprising:

(a) from 15 to 35% by weight of one or more mineral oils;

(b) from 5 to 25% by weight of one or more ammonium salts of inorganic anions selected from ammonium sulfate, ammonium phosphate and mixtures thereof;

(c) from 1 to 10% of one or more cationic emulsifiers selected from dimethylcocoamine, dimethylaurylamine oxide, alkyltrimethyl-ammonium chloride, alkyl dimethylbenzylammonium chloride, alkylpyridium chloride, alkylimidazolium chloride, or mixtures thereof; and

(d) from 1 to 30% of one or more other components to improve the form of the composition selected from nonionic emulsifiers, co-solvents and mixtures thereof; wherein the cationic emulsifier acts as a coupling agent between the lipophilic solvent and the lipophobic plant nutrient to form a homogeneous liquid composition.

38. (Previously presented) A homogeneous liquid adjuvant for use with a chemical used in agriculture comprising:

(a) from 15 to 35% by weight of one or more mineral oils;

(b) from 5 to 25% by weight of one or more ammonium salts of inorganic anions selected from ammonium sulfate, ammonium phosphate and mixtures thereof;

(c) from 1 to 10% of one or more cationic emulsifiers selected from dimethylcocoamine, dimethylaurylamine oxide, alkyltrimethyl-ammonium chloride, alkyl dimethylbenzylammonium chloride, alkylpyridium chloride, alkylimidazolium chloride, or mixtures thereof; and

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(d) from 1 to 30% of one or more other components to improve the form of the composition selected from alkyl polysaccharides, sorbate emulsifiers, fatty alkanolamides, glycols and mixtures thereof;
wherein the cationic emulsifier acts as a coupling agent between the lipophilic solvent and the lipophobic plant nutrient to form a homogeneous liquid composition.

39 (Canceled)

40. (Canceled)

41. (Previously presented) A homogeneous liquid adjuvant for use with a chemical used in agriculture comprising:

- (a) from 15 to 35% by weight of one or more alkyl esters of fatty acids;
- (b) from 5 to 25% by weight of one or more ammonium salts of inorganic anions; and
- (c) from 1 to 10% of a mixture of two or more cationic emulsifiers selected from the group consisting of fatty quaternary ammonium chlorides, fatty amine oxides, fatty alkyldimethylamine salts of simple organic acids and mixtures thereof;
wherein the cationic emulsifier acts as a coupling agent between the lipophilic solvent and the lipophobic plant nutrient to form a homogeneous liquid composition.

42. (Previously presented) A homogeneous liquid adjuvant for use with a chemical used in agriculture comprising:

- (a) from 15 to 35% by weight of one or more alkyl esters of fatty acids;
- (b) from 5 to 25% by weight of one or more ammonium salts of inorganic anions selected from ammonium sulfate, ammonium phosphate and mixtures thereof; and
- (c) from 1 to 10% of a mixture of two or more cationic emulsifiers selected from the group consisting of fatty quaternary ammonium chlorides, fatty amine oxides, fatty alkyldimethylamine salts of simple organic acids and mixtures thereof;
wherein the cationic emulsifier acts as a coupling agent between the lipophilic solvent and the lipophobic plant nutrient to form a homogeneous liquid composition.

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43. (Previously presented) A homogeneous liquid adjuvant for use with a chemical used in agriculture comprising:

- (a) from 15 to 35% by weight of one or more alkyl esters of fatty acids;
- (b) from 5 to 25% by weight of one or more ammonium salts of inorganic anions selected from ammonium sulfate, ammonium phosphate and mixtures thereof;
- (c) from 1 to 10% of a mixture of two or more cationic emulsifiers selected from the group consisting of fatty quaternary ammonium chlorides, fatty amine oxides, fatty alkyldimethylamine salts of simple organic acids and mixtures thereof; and
- (d) from 1 to 30% of one or more other components to improve the form of the composition;

wherein the cationic emulsifier acts as a coupling agent between the lipophilic solvent and the lipophobic plant nutrient to form a homogeneous liquid composition.

44. (Previously presented) A homogeneous liquid adjuvant for use with a chemical used in agriculture comprising:

- (a) from 15 to 35% by weight of one or more alkyl esters of fatty acids;
- (b) from 5 to 25% by weight of one or more ammonium salts of inorganic anions selected from ammonium sulfate, ammonium phosphate and mixtures thereof;
- (c) from 1 to 10% of a mixture of two or more cationic emulsifiers selected from the group consisting of fatty quaternary ammonium chlorides, fatty amine oxides, fatty alkyldimethylamine salts of simple organic acids and mixtures thereof; and
- (d) from 1 to 30% of one or more other components to improve the form of the composition selected from nonionic emulsifiers, co-solvents and mixtures thereof;

wherein the cationic emulsifier acts as a coupling agent between the lipophilic solvent and the lipophobic plant nutrient to form a homogeneous liquid composition.

45. (Previously presented) A homogeneous liquid adjuvant for use with a chemical used in agriculture comprising:

- (a) from 15 to 35% by weight of one or more alkyl esters of fatty acids;
- (b) from 5 to 25% by weight of one or more ammonium salts of inorganic anions selected from ammonium sulfate, ammonium phosphate and mixtures thereof;

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(c) from 1 to 10% of a mixture of two or more cationic emulsifiers selected from the group consisting of fatty quaternary ammonium chlorides, fatty amine oxides, fatty alkyldimethylamine salts of simple organic acids and mixtures thereof; and

(d) from 1 to 30% of one or more other components to improve the form of the composition selected from alkyl polysaccharides, sorbate emulsifiers, fatty alkanolamides, glycols and mixtures thereof;

wherein the cationic emulsifier acts as a coupling agent between the lipophilic solvent and the lipophobic plant nutrient to form a homogeneous liquid composition.